



iVW Video Wall Controller

- Easy-to-install, flexible combination, cost-effective solution
- High-resolution display content input and output
- Support various display modes, including full mode, clone mode, vertical replication mode and user mode
- QNAP unique GeniMask™ bezel masking technology
- Allow remote managing via RS-232 or DVI connection



Why QNAP Video Wall

Video Wall Controller

Connect a laptop or desktop PC directly to the QNAP Video Wall for instant display on a large video wall. No special hardware is required, only a high resolution DVI output from the computer to the video wall controller. The video wall controller tiles together a group of small and inexpensive LCD panels to produce a large video screen.



Easy-To-Install

Just a DVI cable connects the computer to the video wall controller. No extra setup is required and the video wall controllers automatically detects the correct settings. Traditional setups require complex software device drivers and complicated setup. The QNAP video wall controllers are as simple as plug and play.

Traditional PC-Based Video Wall Solution



New-Generation QNAP Video Wall Solution

Connect a computer to the video wall with just a high-resolution **Dual-link DVI** connection.



	Size	Power Consumption	Installation	Expansion
New Generation QNAP iVW Solution	Small • Slim and elegant design	Low • Fanless	Easy • Connect PC via 1 DVI cable	Flexible & Easy • Super large video wall by connecting iVW controllers
Traditional PC-based Solution	Large • PC with multiple graphic cards	High • Graphic card processing consumes much more power	Complicated • Special device drivers and software support	Limited & Expensive • Require a PC with multiple expansion slots

iVW UD (Ultra HD) Series

**iVW-UD322**

- 1 x DVI-D input with 4 x DVI-D outputs (2 x 2)
- Support up to 3840 x 2400
- Ultra high resolution input

SUPPORTED GRAPHIC CARD LIST

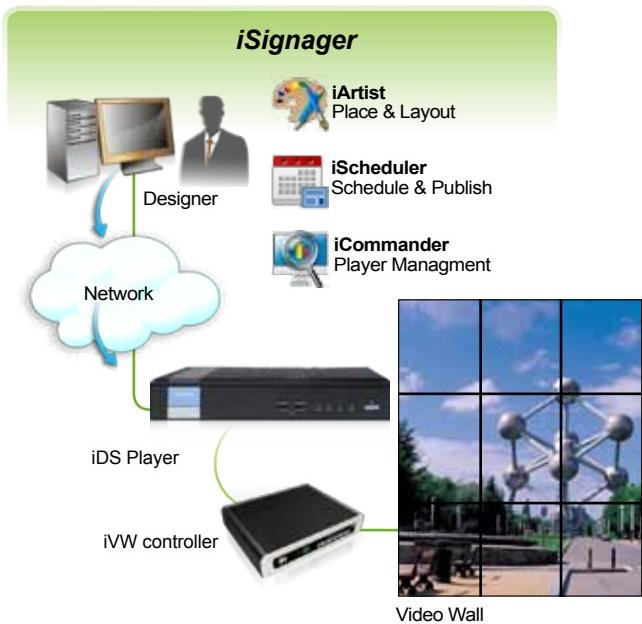
iVW UD series controllers require a graphic card with dual-link DVI and compatibility in ultra high resolution. Below is the supported graphic card list, all other graphic cards not listed below are not guaranteed to be compatible with iVW UD series controllers.

NVIDIA® GeForce® GTX 650
NVIDIA® GeForce® GTX 660



Integration with Digital Signage

The iSignager software allows multi-screen layout design. It is usable to create a layout for video wall application. Users can easily build the single or traversed or even independent media zones.



Descriptions

► iSignager Software

- iArtist:** easy to use content management software for content layout and placement
iScheduler: scheduling software supports hourly, daily, weekly, and monthly based scheduling and time-slot view
iCommander: administrator software for remote player management and content update

► iSignager Player

- High-end:** multiple Full HD output, capability for video analytics
Main stream: Single/dual Full HD output, capability of rich media decoding
Entry Level: Single Full HD output, fanless and compact design

► iVW video wall controller

- Full HD (1080p) Series**
Ultra HD (Above 1080p) Series



1 x 4
(Portrait 4 x 1)
iVW-UD322



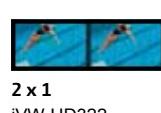
2 x 2
iVW-UD322



1 x 3
(Portrait 3 x 1)
iVW-UD322



4 x 1
iVW-UD322



3 x 1
iVW-UD322

iVW FD (Full HD) Series



iVW-FD133

- 1 x DVI-D input with 9 x DVI-D outputs (3 x 3)
- Support up to 1920 x 1200 high resolution



iVW-FD122

- 1 x DVI-D input with 4 x DVI-D outputs (2 x 2)
- Support up to 1920 x 1200 high resolution



iVW-FH122

- 1 x HDMI input with 1 x HDMI output and 2 x 2 HDMI outputs
- Support up to 1920 x 1080 high resolution



iVW-FH133

- 1 x HDMI input with 9xHDMI outputs (3x3)
- Support up to 1920 x 1200 high resolution



3 x 3
iVW-FD133



2 x 2
iVW-FD133
iVW-FD122
iVW-FH122
iVW-FH133



1 x 1
iVW-FD133
iVW-FD122
iVW-FH122
iVW-FH133

2 x 2 PIP Mode: iVW-FD122, iVW-FH122



Mode 1
Full image on the upper-left screen



Mode 2
Full image on the upper-right screen



Mode 3
Full image on the lower-left screen



Mode 4
Full image on the lower-right screen

Unique GeniMASK Technology

GeniMASK™ adjusts the mask settings of all the video wall controllers. Adjusting each video wall controller individually is time-consuming, but with GeniMASK™ technology, and the included remote control, the mask settings can be adjusted at once as easy as changing TV channels. No separate adjustment is needed. Set once and it's done!



Master Controller

Only the master controller is adjusted

Slave controllers are automatically set

Slave Controller Slave Controller Slave Controller Slave Controller



Comparison

Flexible Expansion

To create a impressive video wall with minimum resources, the video wall controllers can be connected in series to easily expand to a really large scale setup as shown in the diagrams below.

Choose the Video Wall Matrix	4 x 4	4 x 4	6 x 6	6 x 6	9 x 9
Video Wall Matrix Diagram					
Input Resolution	Max. Image resolution: 1920 x 1200 Image Input Cable: Single-link DVI-D Image Output Cable: Single-link DVI-D	Max. Image Resolution: 3840 x 2400 Image Input Cable: Dual-link DVI-D Image Output Cable: Single-link DVI-D	Max. Image Resolution: 1920 x 1200 Image Input Cable: Single-link DVI-D Image Output Cable: Single-link DVI-D	Max. Image Resolution: 3840 x 2400 Image Input Cable: Dual-link DVI-D Image Output Cable: Single-link DVI-D	Max. Image Resolution: 1920 x 1200 Image Input Cable: Single-link DVI-D Image Output Cable: Single-link DVI-D
First Layer					
Second Layer					

Product Comparison

Ultra HD Resolution Series Full HD Resolution Series

Model	iVW-UD322	iVW-FH122	iVW-FD122	iVW-FD133	iVW-FH133																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Features	<ul style="list-style-type: none"> QNAP unique GeniMask™ bezel masking technology Easy-to-install, flexible combination, cost-effective solution High-resolution display content input and output Non-scaling, pixel-to-pixel mapping advantage Support various display modes High frame rate 	<ul style="list-style-type: none"> QNAP unique GeniMask™ bezel masking technology Support up to 1920 x 1200 input content Support various display modes, such as full mode, clone mode, PIP mode, and User mode Audio output via HDMI cable, extra 2 channels analog output and 1 x SPDIF output Allow remote managing via RS-232 or USB connection Support HDCP 	<ul style="list-style-type: none"> QNAP unique GeniMask™ bezel masking technology Support up to 1920 x 1200 input resolution Support various display modes, such as full mode and clone mode. Allow remote managing via RS-232 or DVI connection Easy-to-DIY video wall solution 	<ul style="list-style-type: none"> QNAP unique GeniMask™ bezel masking technology Support up to 1920 x 1200 input resolution Support various display modes, such as full mode and clone mode. Allow remote managing via RS-232 or DVI connection Easy-to-DIY video wall solution 	<ul style="list-style-type: none"> QNAP unique GeniMask™ bezel masking technology Support up to 1920 x 1200 input resolution 1 x Full screen HDMI monitoring output and 1 set of 3 x 3 HDMI output Support 720p/1080p output resolution Support various display modes, such as full mode, clone mode, PIP mode, and User mode Audio output via HDMI cable, extra 2 channels analog output Allow remote managing via RS-232 or USB connection Support HDCP 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Dimensions (WxLxH mm)	230 x 180 x 47	146 x 166 x 63	230 x 180 x 47	295 x 188 x 65	295 x 188 x 65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Front Panel	<p>LED Light 6 x LED (1 x input, 4 x output, 1 x power)</p> <p>Keypad 6 keys</p> <p>IR Receiver Yes</p>	<p>6 x LED (1 x input, 4 x output, 1 x power)</p> <p>6 keys</p> <p>Yes</p>	<p>6 x LED (1 x input, 4 x output, 1 x power)</p> <p>6 keys</p> <p>Yes</p>	<p>11 x LED (1 x input, 9 x output, 1 x power)</p> <p>6 keys</p> <p>Yes</p>	<p>12 x LED (1 x input, 10 x Output, 1 x Power)</p> <p>6 Keys</p> <p>Yes</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Rear Panel	<p>Input 1 x DVI-D dual-link input</p> <p>Output 4 x DVI-D single-link output</p> <p>RS-232 1 x RS-232</p>	<p>1 x HDMI input</p> <p>1 x 2 channels analog audio output via 9 pins connector 1 x SPDIF connector 1 x Full screen HDMI output 1 set of 2x2 HDMI output</p> <p>1 x RS-232 (via RJ-45 connector) 1 x mini USB</p>	<p>1 x DVI-D single-link input</p> <p>4 x DVI-D single-link output</p> <p>9 x DVI-D single-link output</p> <p>1 x RS-232</p>	<p>1 x DVI-D single-link input</p> <p>9 x DVI-D single-link output</p> <p>1 x RS-232</p>	<p>1 x HDMI input</p> <p>1 x 2 channels analog audio output via 9 pins connector 1 x Full screen HDMI monitoring output 9 x HDMI output</p> <p>1 x RS-232</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Display Mode	Full mode, Clone mode, Vertical replication mode	Clone mode, Full mode, Vertical replication mode, PIP mode, User mode	Clone mode, Full mode, Vertical replication mode, PIP mode	Clone mode, Full mode	Clone mode, Full mode (3 x 3, 3 x 2, 2 x 3, 2 x 2, 1 x 1)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1080</td><td>1920 x 1080</td><td>1920 x 1080</td></tr> <tr> <td>Resolution</td><td>1024 x 768</td><td>1 x 1024 x 768</td><td>60</td><td></td><td></td><td>1920 x 1200</td><td>1920 x 1200</td><td>1920 x 1200</td><td>1920 x 1200</td><td>1920 x 1200</td><td>1920 x 1200</td></tr> <tr> <td></td><td colspan="3">Full mode (4 x 1)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td>3392 x 480</td><td>4 x 848 x 480</td><td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td>3200 x 600</td><td>4 x 800 x 600</td><td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td>3840 x 600</td><td>4 x 960 x 600</td><td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td>4094 x 768</td><td>4 x 1024 x 768</td><td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td 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63Hz</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td>Output</td><td>12V DC 3.3A</td><td>12V DC 3.3A</td><td>12V DC 3.3A</td><td>12V DC 3.3A</td><td>12V DC 3.3A</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>OSD Function</td><td colspan="3"> <ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control </td><td colspan="3"> <ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control </td><td colspan="3"> <ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control </td><td colspan="3"> <ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control </td></tr> <tr> <td>Temperature</td><td colspan="3">0°C ~ 40°C With air flow</td><td colspan="3">0°C ~ 40°C With air flow</td><td colspan="3">0°C ~ 40°C With air flow</td><td colspan="3">0°C ~ 40°C With air flow</td></tr> <tr> <td>Safety and Emission</td><td colspan="3">CE, FCC</td><td colspan="3">CE, FCC</td><td colspan="3">CE, FCC</td><td colspan="3">CE, FCC</td></tr> </tbody> </table>	Input	Output	Output Vertical Frequency (Hz)	Input	Output	Input	Output	Input	Output	Full mode (2 x 2)			640 x 400 (70 Hz)	720p / 1080p	640 x 480	1024 x 768	640 x 480	1024 x 768	640 x 400 (70 Hz)	1024 x 768	2048 x 1536	4 x 1024 x 768	60	720 x 400 (70/85 Hz)		800 x 600	1360 x 768	800 x 600	1360 x 768	720 x 400 (70/85 Hz)	1360 x 768	2560 x 2048	4 x 1280 x 1024	60	640 x 480 (60/66/70/72/75 Hz)		1024 x 768	1366 x 768	1024 x 768	1366 x 768	640 x 480	1366 x 768	2560 x 1440	4 x 1280 x 720	60	800 x 600 (56/60/66/70/72/75 Hz)		1152 x 664	1280 x 1024	1152 x 664	1280 x 1024	(60/66/70/72/75 Hz)	1280 x 1024	2560 x 1600	4 x 1280 x 800	60	1024 x 768 (60/66/70/72/75 Hz)		1280 x 768	1400 x 1050	1280 x 768	1400 x 1050	800 x 600	1400 x 1050	2720 x 1536	4 x 1360 x 768	60	1152 x 864 (75 Hz)		1280 x 960	1600 x 1200	1280 x 960	1600 x 1200	1024 x 768 (56/60/66/70/72/75 Hz)	1600 x 1200	3840 x 2880	4 x 1920 x 1440	60	1280 x 720 (60 Hz)		1280 x 1024	1680 x 1050	1280 x 1024	1680 x 1050	1024 x 768 (60/66/70/72/75 Hz)	1680 x 1050	3840 x 2160	4 x 1920 x 1080	60	1280 x 768 (60 Hz)		1360 x 768	1920 x 1080	1360 x 768	1920 x 1080	(60/66/70/72/75 Hz)	1920 x 1080	3840 x 2400	4 x 1920 x 1200	60	1280 x 960 (60 Hz)		1366 x 768	1920 x 1200	1366 x 768	1920 x 1200	1152 x 864 (75 Hz)	1920 x 1200	2560 x 1920	4 x 1280 x 960	60	1280 x 768 (60 Hz)		1440 x 900	1920 x 1080	1440 x 900	1920 x 1080	1280 x 720 (60 Hz)	1920 x 1080	1280 x 960	4 x 640 x 480	60	1360 x 768 (60 Hz)		1600 x 1200	1920 x 1080	1600 x 1200	1920 x 1080	1280 x 768 (60 Hz)	1920 x 1080	3392 x 1920	4 x 1696 x 960	60	1366 x 768 (60 Hz)		1680 x 1050	1920 x 1080	1680 x 1050	1920 x 1080	1280 x 960 (60 Hz)	1920 x 1080	1696 x 960	4 x 848 x 480	60	1600 x 1200 (60 Hz)		1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 1024 (60 Hz)	1920 x 1080	2732 x 1536	4 x 1366 x 768	60	1920 x 1200 (60 Hz)		1920 x 1200	1920 x 1200	1920 x 1200	1920 x 1200	(60/70/75 Hz)	1920 x 1200		Vertical replication mode (2 x 1)			480p	640 x 400 (70 Hz)	1366 x 768 (60 Hz)					720p	1080i/p	1600 x 1200 (60 Hz)		Clone mode (1 x 1)					1920 x 1080	Resolution	1024 x 768	1 x 1024 x 768	60			1920 x 1200		Full mode (4 x 1)												3392 x 480	4 x 848 x 480	60										3200 x 600	4 x 800 x 600	60										3840 x 600	4 x 960 x 600	60										4094 x 768	4 x 1024 x 768	60										Full mode (3 x 1)												3072 x 768	3 x 1024 x 768	60										3840 x 800	3 x 1280 x 800	60										3840 x 1024	3 x 1280 x 1024	60										4080 x 768	3 x 1360 x 768	60										Full mode (1 x 4)												1024 x 3072	4 x 1024 x 768	60										1280 x 3200	4 x 1280 x 800	60										1280 x 4095	4 x 1280 x 1024	60										1360 x 3072	4 x 1360 x 768	60										1366 x 3072	4 x 1366 x 768	60										Full mode (1 x 3)												1024 x 2304	3 x 1024 x 768	60										1280 x 2400	3 x 1280 x 800	60										1280 x 3072	3 x 1280 x 1024	60										1360 x 2304	3 x 1360 x 768	60										1366 x 2304	4 x 1366 x 768	60									Power Consumption	18W	24W		20W	35W	35W						Power Supply	Connector	DC Power Jack							Input	90VAC to 264VAC/47Hz to 63Hz							Output	12V DC 3.3A						OSD Function	<ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control 			<ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control 			<ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control 			<ul style="list-style-type: none"> Power On/Off Output resolution selection GeniMask bezel masking control 			Temperature	0°C ~ 40°C With air flow			0°C ~ 40°C With air flow			0°C ~ 40°C With air flow			0°C ~ 40°C With air flow			Safety and Emission	CE, FCC																																										
Input	Output	Output Vertical Frequency (Hz)	Input	Output	Input	Output	Input	Output																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Full mode (2 x 2)			640 x 400 (70 Hz)	720p / 1080p	640 x 480	1024 x 768	640 x 480	1024 x 768	640 x 400 (70 Hz)	1024 x 768																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2048 x 1536	4 x 1024 x 768	60	720 x 400 (70/85 Hz)		800 x 600	1360 x 768	800 x 600	1360 x 768	720 x 400 (70/85 Hz)	1360 x 768																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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3840 x 2160	4 x 1920 x 1080	60	1280 x 768 (60 Hz)		1360 x 768	1920 x 1080	1360 x 768	1920 x 1080	(60/66/70/72/75 Hz)	1920 x 1080																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3840 x 2400	4 x 1920 x 1200	60	1280 x 960 (60 Hz)		1366 x 768	1920 x 1200	1366 x 768	1920 x 1200	1152 x 864 (75 Hz)	1920 x 1200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1280 x 960	4 x 640 x 480	60	1360 x 768 (60 Hz)		1600 x 1200	1920 x 1080	1600 x 1200	1920 x 1080	1280 x 768 (60 Hz)	1920 x 1080																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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	Input	90VAC to 264VAC/47Hz to 63Hz	90VAC to 264VAC/47Hz to 63Hz	90VAC to 264VAC/47Hz to 63Hz	90VAC to 264VAC/47Hz to 63Hz	90VAC to 264VAC/47Hz to 63Hz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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